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To: Dr. Sabah Randhawa, Provost

From: Michael E. Campana, Director, Institute for Water and Watersheds

Re: 2007 Progress Report for Water and Watersheds Initiative

This document contains: 1) an outline of the progress of the Water and Watersheds Initiative (WWI), as indicated by the progress of the Institute for Water and Watersheds (IWW); 2) plans for the next 12 months; 3) where the WWI will be at full maturity; 4) some simplified metrics; 5) other requested information; and 6) budget summary.

1) Accomplishments to Date

- Development of the *OSU Water Vision* and initiation of process to produce an *OUS Water Vision*
- Water Collaboratory move from Gilmore Hall to a permanent, more spacious location in FSL. Greater investment in both field and laboratory equipment.
- Creation of Joint Northwest Water Institute (JONWI) with Pacific Northwest National Laboratory and Idaho National Laboratory; support for JONWI on OSU's FY 2008 Federal agenda
- Sponsorship of seminar series, courses, and workshops
- Co-sponsorship of *Snake-Columbia Basin Water and Energy Summit*
- Development of the *International Conference on Non-Renewable Ground Water*, with support from National Ground Water Association, UNESCO, and The World Bank (to be held in Portland or Bend, Fall 2008)
- Proposals submitted – 1) USAID – Jordan Natural Resources (\$750K; unfunded); 2) NSF - Critical Zone Observatory (\$4.1M; pending; Jay Noller – lead PI); 3) USAID – Malawi Food and Water (\$400K; pending; Washington State University –lead); 4) Asian Development Bank - Western Basins Development Project (\$4M; Expression of Interest [EOI] submitted)
- Diversity and Excellence Fellowships
- Awarded USGS Research Funds for FY 2008
- Created WaterWired blog
- Identified External Advisory Board members
- OSU sponsorship of and participation in the Great Basin Research Management Partnership

2) The Next 12 Months

- Orchestrate and complete *OUS Water Vision* and submit to Rep. Earl Blumenauer
- Convene External Advisory Board
- Additional equipment for the Water Collaboratory; develop sustainable funding model

- Work with OSUF to raise funds - capital campaign and support from private foundations for visiting/endowed professorships; fellowships; programs; implement business plan for fundraising
- Pursue international initiatives: 1) UNESCO Category II Center of Excellence at OSU; 2) Provide physical home for Marcia Macomber, Capacity Building Officer for CGIAR's CPWF (Challenge Program for Water and Food); 3) USAID & ADB Afghanistan Projects; 4) USAID China RFA
- Plan *International Conference on Non-Renewable Ground Water* (with NGWA, UNESCO, The World Bank) – Fall 2008
- Obtain funding for Program in Water Conflict Management and Transformation
- Develop sustainable funding model for the IWW
- Inreach: on-campus visits, faculty meetings, conference, etc.
- Pursue projects with Native Americans
- Develop podcasts, radio shows, etc.
- Pursue development of Digital Library Portal for IWW (Oak Creek basin data online, etc.)
- Redesign WWW site

3) *Maturity of the WWI*

- Sustainable funding for IWW
- Fully-functioning Water Collaboratory with state-of-the art suite of analytical equipment and 0.50 FTE Collaboratory Director
- Physical IWW “home” – workspace for students, visiting faculty, etc.
- Funded Program in Water Conflict Management and Transformation
- Funded Pacific Northwest Hydrologic Observatory
- *OSU Water Vision* being implemented and integrated with *OUS Water Vision*
- IWW: national/international reputation, synonymous with “water” at OSU

4) *Simplified Metrics*

Objective: Institute for Water and Watersheds in Teaching, Research, and Outreach			
Metric	Indicator	Data Collection Method	Achievements
Interdisciplinary proposals, projects, courses, sponsored workshops	No. of courses	No. of Cat. I/II proposals	<ul style="list-style-type: none"> • Launched WRP 524 – Sociotechnological Aspects of Water Resources • Launched CSS/GEO 335 – Introduction to Water Science & Policy through eCampus • Sponsored Fall, Winter & Spring Seminar series IWW identified in <i>Corvallis Gazette Times; Worldwide</i>
	No. of sponsored seminars	Seminars offered in OSU Catalog	
	No. of Newspaper/Newsletter articles	Newspaper/Newsletter Events	

	No. of Workshops	Workshop Events	<i>Drilling Resource; Capital Press; Statesmen Journal;</i> <ul style="list-style-type: none"> Willamette Environmental Flows, Salem
Evidence of coordination of IWW activities at OSU	No. of Exec. Comm. Mtgs. No. of Collaborative Facilities Deans' Advisory Board Meeting Newsletters	Meeting minutes Equipment awards Meeting materials Newspaper/Newsletter Events	<ul style="list-style-type: none"> 5 monthly meetings Collaboratory opened for water quality analyses; permanent home in FSL; RERF award for GC February 5 meeting H₂O News online and updated monthly Over 5,000 webpage hits in 6 months
No. of water/watershed proposals submitted & dollar amount	No. of "blue-sheet" proposals	Research Office and Office of Post Award Data base	<ul style="list-style-type: none"> 72 water-related proposals submitted for \$19.5 M <ul style="list-style-type: none"> 11 awarded for \$0.3M 56 pending for \$17M 5 declined for \$2.2M

Objective: Innovative Educational Programs			
Metric	Indicator	Data Collection Method	Achievements
Evidence of interdisciplinary courses developed or taught	No. of courses No. of sponsored seminars	No. of Cat. I/II proposals Seminars offered in OSU Catalog	<ul style="list-style-type: none"> 20 students enrolled in eCampus for Introduction to Water Science and Policy during summer term 35 students enrolled in Socio-technical Aspects of Water Resources GEO 487 - Hydrogeology for faculty on sabbatical Sponsored Fall, Winter & Spring Seminar series
Evidence of underrepresented minorities participating in water and watershed activities	No. of scholarships and awards	Competitive RFP for Scholarship	Two IWW Diversity and Excellence Fellowships awarded in 2007

Number of students taking water and watershed courses	Class Enrollments	Online records of class enrollments for Fall, 2007	Over 200 students enrolled in water-related courses in CSS, GEO, FE, CE, ENVE, WRGP, BRE

Objective: High Opportunity Funding			
Metric	Indicator	Data Collection Method	Achievements
Number of water and watershed proposals submitted by value	No. of RFPs from NSF or DOE labs, etc.	OSU Research Office submittals	<ul style="list-style-type: none"> • USGS Water Center (\$93K) • Umatilla County (\$5K) • USAID Jordan Water (\$700K; unfunded) • NSF CZO (\$4.1M; pending) • USAID Malawi Food and Water (\$400K; pending; WSU – lead) • ADB Western Basins Project (Afghanistan; \$4M; EOI pending)
IWW-facilitated investments in projects	No. of cooperative agreements	Press releases, new contracts	<ul style="list-style-type: none"> • IWW awarded Umatilla County Critical Groundwater Basin Task Force Outreach contract as cooperative agreement. • Collaboratory - added new equipment
Evidence of new and increased recognition of OSU Water and Watershed programs	No. of awards and invitations to conferences	Press releases	<ul style="list-style-type: none"> • Two invited presentations to the Oregon House of Representatives Committee on Energy and the Environment • Capitol Hill briefing • President's Weekend presentation • Portland Khabarovsk Sister City Association consultation on Amur River pollution

Objective: Collaboratory for Water and Watersheds on the OSU Campus			
Metric	Indicator	Data Collection Method	Achievements
Quantity of Collaboratory water services	Nutrient analyses including 7 anions and 6 cations using IAC and AA	IWW website	<ul style="list-style-type: none"> • Field equipment • Lab equipment: carbon analyzer, GC, AA, ion chromatograph
Quantity of Collaboratory facilities	Equipment and Location	IWW website	<ul style="list-style-type: none"> • Permanent location secured at FSL; move from Gilmore • 2 labs, office
External funding supporting Collaboratory	No. of Analyses, Proposals for Equipment	Invoice Records, Proposals Submitted	<ul style="list-style-type: none"> • RERF support – \$44K - gas chromatograph • 1418 analyses - \$4.5K

5) Other Helpful Information

- Director and Dr. Todd Jarvis met with numerous stakeholder groups
- Completion of The Nature Conservancy-USACE Willamette Flow Management Project (making flow recommendations) and workshop in Salem
- IWW playing prominent role in supporting the Umatilla County Critical Groundwater Basin Task Force; work in basin has been featured internationally.
- Director membership on NAS *Committee on Hydrology, Ecology, and Fishes of the Klamath River Basin*.
- IWW (Dr. Todd Jarvis) helped frame the debate on Measure 37’s effect on water resources and “bottled water”.
- IWW Director recognized as one of the academic leaders in hydrohumanity/hydrophilanthropy.
- IWW played prominent role in helping create the Great Basin Research Management Partnership; may enhance funding opportunities.
- IWW assisting Benton County in developing water plan
- IWW facilitates submission of interdisciplinary and multidisciplinary proposals by assembling teams using a matrix model.

6) Budget Summary

See Excel spreadsheet.

Salaries-Wages-OPE	2005	2006	2007
Salary-Wages	\$950	\$53,835	\$153,499
OPE	488	22,182	48,366
Salary Subtotal	\$1,438	\$76,017	\$201,865

Supplies & Services Expenses	2005	2006	2007
Supplies, Equip, Utilities	\$3,584	\$14,728	\$49,588
Travel	1,292	13,960	20,019
Supplies Subtotals	\$4,876	\$28,688	\$69,607

Expenditures in support of	2005	2006	2007
The Water Collaboratory		\$20,192	\$66,159
Water Grad Student Support		10,000	10,924
Diversity/Excellence Scholarships		2,500	68,232
Pilot Research Projects		60,200	71,448
Support Subtotals	\$0	\$92,892	\$216,763

Expenses by FY	2005	2006	2007
Total Expense	\$6,314	\$197,597	\$488,235